

WHAT IS CLAIMED IS:

1. A method of manufacturing a fuel cell including a first current collecting layer, a first reaction layer, an electrolyte membrane, a second reaction layer, and a second current collecting layer, the method comprising:

forming the first reaction layer by repeatedly applying a reaction-layer-forming material on the first current collecting layer at predetermined intervals.

2. A method of manufacturing a fuel cell, comprising:
on a first substrate, forming first gas passages to supply first reaction gas;
forming a first current collecting layer to collect electrons generated by a reaction of the first reaction gas supplied through the first gas passages;

forming a first reaction layer to cause the first reaction gas supplied through the first gas passages to react with a catalyst;

forming an electrolyte membrane;

on a second substrate, forming second gas passages to supply second reaction gas;

forming a second current collecting layer to collect electrons which are subjected to a reaction with the second reaction gas supplied through the second gas passages;
and

forming a second reaction layer to cause the second reaction gas supplied through the second gas passages to react with a catalyst,

at least one of forming the first reaction layer and forming the second reaction layer forming the first reaction layer or the second reaction layer by repeatedly applying a reaction-layer-forming material on the first current collecting layer or the second current collecting layer at predetermined intervals.

3. The method of manufacturing a fuel cell according to Claim 1,
a discharging device is employed to apply the reaction-layer-forming material.

4. The method of manufacturing a fuel cell according to Claim 1,
the first reaction layer being formed by removing unnecessary components from a film, which is obtained by applying the reaction-layer-forming material, under reduced pressure and at a temperature no greater than 100°C.

5. The method of manufacturing a fuel cell according to Claim 1,
the first reaction layer being formed by repeating a unit operation in which a given amount of the reaction-layer-forming material is applied on the entire area of a first reaction layer forming region on the first current collecting layer at predetermined intervals

and unnecessary components are removed from droplets of the applied reaction-layer-forming material.

6. The method of manufacturing a fuel cell according to Claim 5, the discharging device being provided with a plurality of discharging nozzles, and the reaction-layer-forming material being discharged and applied during every unit operation by a different discharging nozzle.

7. An electronic apparatus, comprising:

a fuel cell manufactured by a method according to Claim 1 as a power supply.

8. An automobile, comprising:

a fuel cell manufactured by a method according to Claim 1 as a power supply.